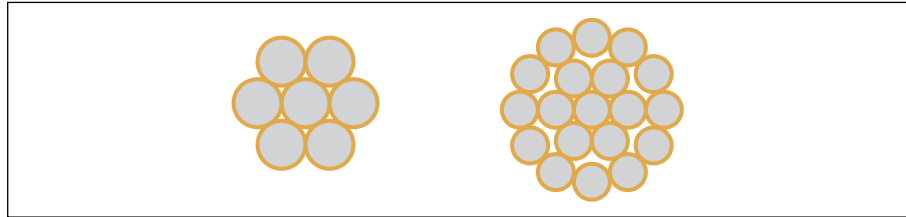


# Dead Soft Annealed (DSA) Copper Clad Steel (CCS) Grounding Conductor

## Product Construction:

### Complete Conductor:

Dead Soft Annealed (DSA) Copper Clad Steel (CCS) conductors are concentric-lay-stranded. The CCS strands are a 40% conductivity grade previously referred to as Grade 40A. The wire is manufactured using a low carbon steel core, rendering greater flexibility to enable easier handling during installation. The direction of lay for the outer layer is left-hand. The direction of lay of each successive layer is reversed. DSA CCS grounding conductors are manufactured in accordance with ASTM B910, B258 and B228, as applicable.



### Features and Benefits:

Stranded DSA Copper Clad Steel conductors are used for buried ground grid systems where a more economical alternative to copper conductors is desired.

For utility applications, Copper Clad Steel is used in substation and generation plant ground grids; grounding of metal fences; and in building and structure lightning protection systems.

Copper Clad Steel is tough to cut and unlike copper conductors has virtually no scrap recovery value, thus reducing the potential of theft or vandalism of the grounding wire.

### Applications:

DSA Copper Clad Steel stranded conductors are used in place of copper conductors in grounding applications and systems. The size and construction of the Copper Clad Steel conductor is generally selected by matching the approximate diameter equivalence to a copper conductor. Please note that the ampacity rating and the dc and ac resistance of the Copper Clad Steel wire conductor is not equivalent to that of the copper conductor.

**DSA COPPER CLAD STEEL CONDUCTORS, CONCENTRIC-LAY-STRANDED**

SIZE DESIG.	SIZE NO. X WIRE AWG	NO. X DIA. INCHES	CROSS-SECTION SQ. INCHES	O.D. INCHES	APPROX. WEIGHT LBS/1000 FT	MIN. BREAKING STRENGTH LBS	MAX. DC RESISTANCE @ 20°C OHMS/KFT	STANDARD PACKAGES (1)	
								REEL DESIG.	LENGTH FEET
11/32"	7 x #9 AWG	7 x 0.1144	0.07195	0.343	259	2510	0.2974	W 46X36	15900
3/8"	7 x #8 AWG	7 x 0.1285	0.09078	0.385	327	3170	0.2358	W 46X36	12500
7/16"	7 x #7 AWG	7 x 0.1443	0.1145	0.433	413	4000	0.1870	W 46X37	10000
1/2"	7 x #6 AWG	7 x 0.1620	0.1443	0.486	520	5040	0.1483	W 46X38	7900
9/16"	7 x #5 AWG	7 x 0.1819	0.1819	0.546	656	6300	0.1177	W 46X39	6200
9/16"	19 x #9 AWG	19 x 0.1144	0.1953	0.572	707	6820	0.1100	W 46X40	5700
21/32"	19 x #8 AWG	19 x 0.1285	0.2464	0.642	892	8610	0.0872	W 46X41	4490
23/32"	19 x #7 AWG	19 x 0.1443	0.3107	0.721	1125	10850	0.0691	W 46X42	3600
13/16"	19 x #6 AWG	19 x 0.1620	0.3916	0.810	1418	13680	0.0549	W 46X43	2840
7/8"	19 x #5 AWG	19 x 0.1819	0.4938	0.910	1787	17250	0.0435	W 46X44	2230

Dimensions and weights not designated minimum or maximum are nominal values and subject to manufacturing tolerances. In this context, weight means mass.